SA-WMS367

SERVICE MANUAL

Ver 1.0 2004.03

US Model Canadian Model



• SA-WMS367 is the subwoofer section in SA-VE367T.

SPECIFICATIONS

For the US model **AUDIO POWER SPECIFICATIONS**

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 ohm loads, from 20 - 200 Hz; rated 120 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Active subwoofer, Speaker system

magnetically shielded

Woofer: 20 cm (8 in.) Speaker unit Enclosure type

Acoustically loaded Bass Reflex

Reproduction frequency range

26 Hz - 200 Hz

Continuous RMS power output

135 W (6 ohms, 100 Hz,

10% THD)

Inputs

INPUT (input pin jack) SPEAKER IN (input terminals)

Outputs

SPEAKER OUT (output terminals)

General

120 V AC, 60 Hz Power requirements

130 W Power consumptions

1 W (standby mode)

Approx. 290 × 400 × 424 mm Dimensions (w/h/d) $(11 \ 1/8 \times 15 \ 1/4 \times 16 \ 3/8 \ in.)$

Approx. 13 kg

Mass

(28 lb 11 oz)

Design and specifications are subject to change without

notice.

SUBWOOFER

Sony Corporation 9-877-698-01 2004C04-1 **Home Audio Company**

© 2004.03 **Published by Sony Engineering Corporation**



SAFETY CHECK-OUT

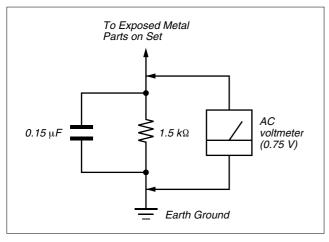
After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

- 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate lowvoltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



(Fig. A)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK riangle OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

1. G	ENERAL	
L	ocation of Controls	3
2. D	NAGRAMS	
2-1.	Note for Printed Wiring Boards and	
	Schematic Diagrams	3
2-2.	Circuit Boards Location	3
2-3.	Printed Wiring Boards - Main Section	4
2-4.	Schematic Diagram - Main Section	5
2-5.	Printed Wiring Boards - Control Section	6
2-6.	Schematic Diagram - Control Section	7
2-7.	IC Block Diagram	8
3. E	XPLODED VIEWS	
3-1.	Front Section	9
3-2.	Rear Section	10
1 F	I FCTRICAL PARTS LIST	11

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the leadfree mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

| LEAD FREE MARK

Unleaded solder has the following characteristics.

• Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

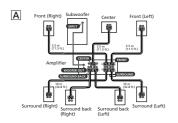
- Strong viscosity
- Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

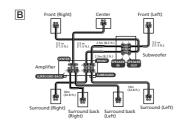
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

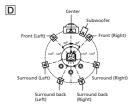
LOCATION OF CONTROL

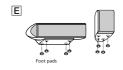






This section is extracted from instruction manual.

















About this manual

The SA-VE367T is a 7.1 channel speaker system

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Precautions

On safety
• Before operating the system, be sure that the operating voltage of the system is identical with that of your local

- rollary or the system is identical with that of your course or The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off. Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull the cord by grasping the plug. Never pull the cord itself.
- Should any liquid or solid object fall into the system, unplug the system's power cord and have the system checked by qualified personnel before operating it any tendence.
- AC power cord must be changed only at the qualified service shop.

On operation
• Do not drive the speaker system with a continuous wattage exceeding the maximum input power of the

- system.

 If the polarity of the speaker connections are not correct, the bass tones will be weak and the position of the various instruments obscure.

 Contact between bare speaker wires at the speaker terminals may result in a short-circuit.

- Before connecting, turn of the amplifier to avoid damaging the speaker system.

 The speaker grille cannot be removed. Do not attempt to remove the grille on the speaker system. If you try to remove it, you may damage the speaker.
- The volume level should not be turned up to the point of distortion.

If you encounter color irregularity on a nearby TV screen

This speaker system is magnetically shielded to allow it to be installed near a TV set. However, color irregularities may still be observed on certain types of TV

If color irregularity is observed...

Turn off the TV set, then turn it on again after 15 to

If color irregularity is observed again..

Reposition the speakers or turn down the volume on the amplifier.

- Dusty or dirty

- Subject to direct sunlight
 Use caution when placing the speaker on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.

On cleaning
Clean the speaker cabinets with a soft cloth lightly moistened with a mild detergent solution or water. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any questions or problems concerning your speaker system, please consult your nearest Sony deal

Hooking up the system

Connect the speaker system to the speaker output terminals of an amplifier.

Make sure power to all components (included the subwoofer) is turned off before starting the hook-up.

Hookup A

Hookup B

Try this configuration instead of "Hookup [A]" when there are no jacks on the amplifier for a subwoofer. An optional specified speaker cord (2.5 m × 2)(8.2 ft.× 2) is necessary when connecting this way.

- Make sure the plus (+) and the minus (-) terminals on the speakers are matched to the corresponding plus (+) and minus (-) terminals on the amplifier.

 Be sure to tighten the screws of the speaker terminals securely as loose screws may become a source of noise.

 Make sure all connections are firm. Contact between bare speaker wires at the speaker terminals may cause a short-circuit.
- For details regarding the connections on the amplifier side, refer to the manual that was provided with your amplifier.

Positioning the speakers

Location of each speaker (D)

Location of each speaker (□)
Each speaker should face he listening position. Better
surround effect will result if all speakers are set at the
same distance from the listening position.
Place the front speakers at a suitable distance to the left
and right of the television.
Place the subwoofer on either side of the television.
Place the subwoofer on either side of the television.
Place the suther speaker on the top-center of the TV set.
The placement of surround speakers greatly depends on
the configuration of the room. The surround speakers
may be placed slightly behind the listening position.
Place the surround back speakers behind the listening
position. The angle

the same.

Setting the speakers

Setting the center speaker (F)
Set the center speaker firmly on top of the TV set.

sure it is completely level.

Setting other speakers (③)

For greater flexibility in the positioning of the:
use the optional WS-FV11 or WS-WV10D sp

The height of the front speakers should be adjusted to about the center of the TV screen $(\boxed{H}).$

Setting the amplifier

When connecting to an amplifier with internal multi channel decoders (Dolby Digital, DTS**, etc.), you should use the setup menus for the amplifier to specify the parameters of your speaker system. See the table below for the proper settings. For details on the setting procedure, refer to the manual that was provided with your amplifier.

When "Hookup A" is used

(Speaker Setup)	
For	Set to
Front speakers	SMALL
Center speaker	SMALL
Surround speakers	SMALL
Subwoofer	ON (or YES)

Subwoolei	OI4 (OI ILO)	
When "Hookup (Speaker setup		

(Speaker setup))	
For	Set to	
Front speakers	LARGE	
Center speaker	SMALL	
Surround speakers	SMALL	
Subwoofer	OFF (or NO)	

If you use the amplifier with adjustable crossover frequency, it is recommended to select 150 Hz (or close to this figure) as the crossover frequency for your front, center, and surround speakers.

** "DTS" and "DTS Digital Surround" are regist trademarks of Digital Theater Systems, Inc.

Listening to the sound ()

First, turn down the volume on the amplifier. The volume should be set to minimum before you begin playing the program source. 1 Turn on the amplifier and select the program source.

2 Press POWER on the subwoofer. e POWER indicator on the subwoofer

lights up green. 3 Play the program source.

Power turns on and off automatically — Auto power onloft function ([J]) when the subwooler is on (i.e, the POWER indicator lights up green) and there is no signal input for a few minutes, the POWER indicator changes to red and the subwooler enters power saving mode. While in this mode a signal is input to the subwooler, the subwooler To turn this feature off, side the POWER SAVE switch on the rear cannot to OFF.

Adjusting the subwoofer (K)

- 1 Rotate VOLUME to adjust the volume. Set the volume level to best suit your preference according to the program source.
- 2 Select the phase polarity. Use the PHASE selector to select the phase
- 3 Set BASS-BOOST to MIN. Rotate BASS-BOOST according to the output level that you prefer. Some material is recorded with strong emphasis on bass sounds, which may be accessive in some cases. If this happens, rotate BASS-BOOST towards minimum.

- Notes

 Some amplifier functions for enhancing the sound may
 acuse distortion in the subwoofer. If such distortion
 occurs, turn off those functions.

 To enjly high-quality scund, do not turn the
 subsection of the subsection o
- Selecting NORMAL or REVERSE with the PHASE Selecting NORMAL or REVERSE with the PHASE selector reverses the polarity and may provide better bass reproduction in certain listening environments (depending on the type of front speakers, the position of the subwoofer and the adjustment of the BASS-BOOST. It may also change the expansion and tightness of sound, and effect the feeling of the sound field. Select the setting that provides the sound you prefer when listening in your normal listening position.

Troubleshooting

Should you encounter a problem with your speaker system, check the following list and take the indicated measures. If the problem persists, consult your nearest Sony dealer.

- There is no sound from the speaker system. Make sure all the connections have been
- Make sure the volume on the amplifier has been turned up properly. Make sure the program source selector on the amplifier is set to the proper source.
- Check if headphones are connected. If they are, disconnect them. There is distortion in the subwoofer sound

Check if any sound-enhancing functions have been activated on the amplifier. If they have, turn them off.

There is hum or noise in the speaker output.

• Make sure all the connections have been correctly made.

Make sure none of the audio components are positioned too close to the TV set.

The sound has suddenly stopped. . Make sure all the connections have been correctly made. Contact between bare speaker wires at the speaker terminals may

SECTION 2 DIAGRAMS

2-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING **BOARDS AND SCHEMATIC DIAGRAMS.** (In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}/_{4}$ W or less unless otherwise specified.
- \[
 \text{\Delta} : internal component.
 \]
- _____: panel designation.

Note:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque riangle sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro

spécifié.

 Voltages are dc with respect to ground under no-signal (detuned) conditions. no mark: Power on Voltages are taken with a VOM (Input impedance 10 $M\Omega$).

Voltage variations may be noted due to normal produc-

tion tolerances. Signal path. ⇒ : AUDIO Abbreviation

CND: Canadian model.

--- : B- Line.

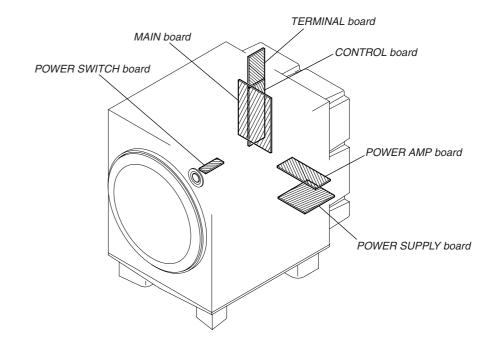
For printed wiring boards.

Note:

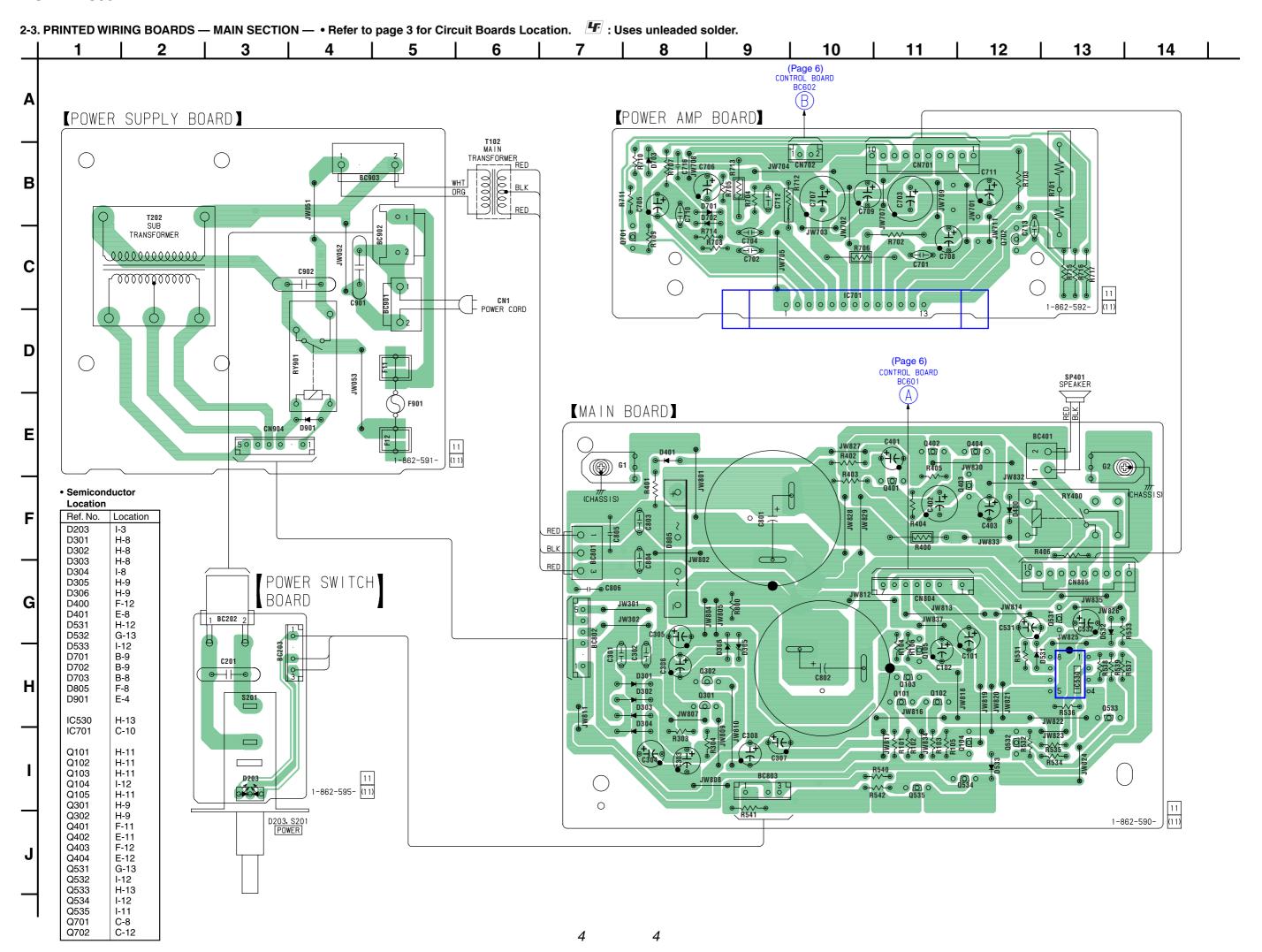
- : parts extracted from the component side.
- parts extracted from the conductor side.
- Pattern from the side which enables seeing.
- Abbreviation

CND: Canadian model.

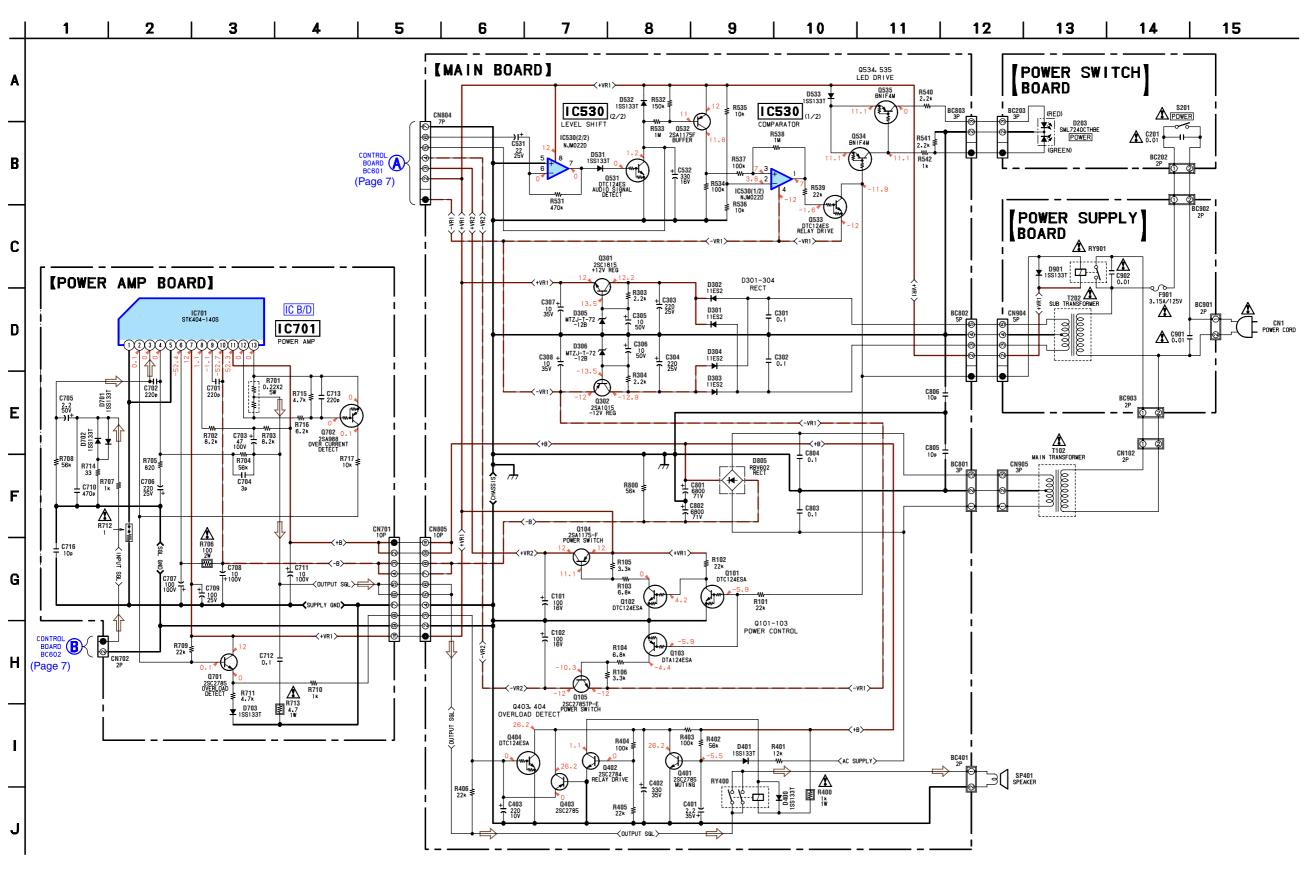
2-2. CIRCUIT BOARDS LOCATION



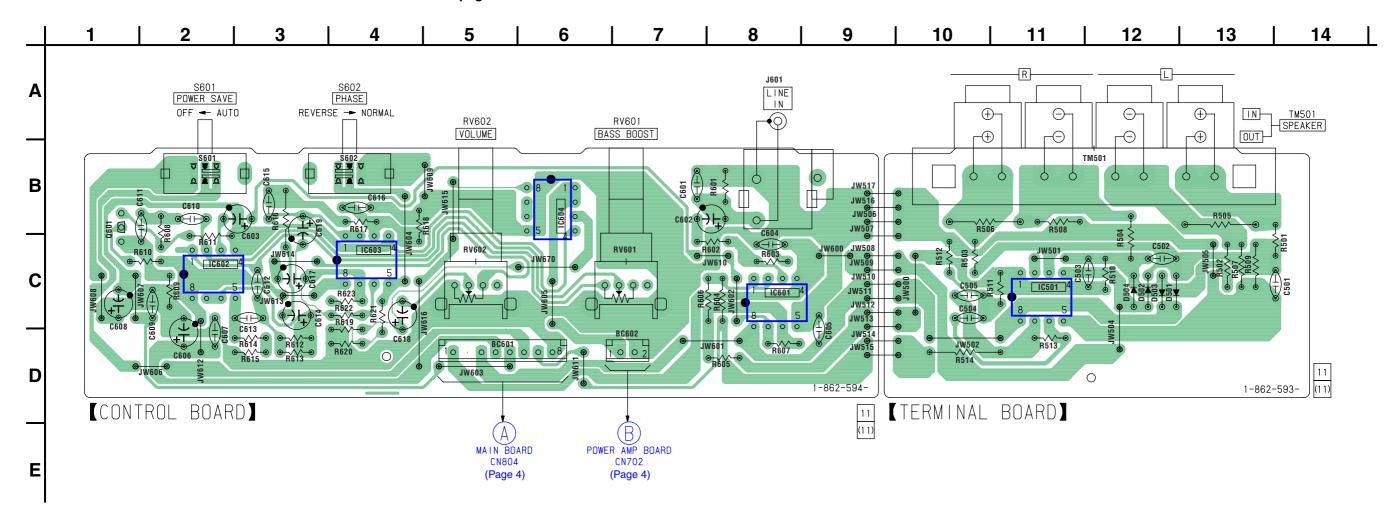
3



2-4. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 8 for IC Block Diagram.



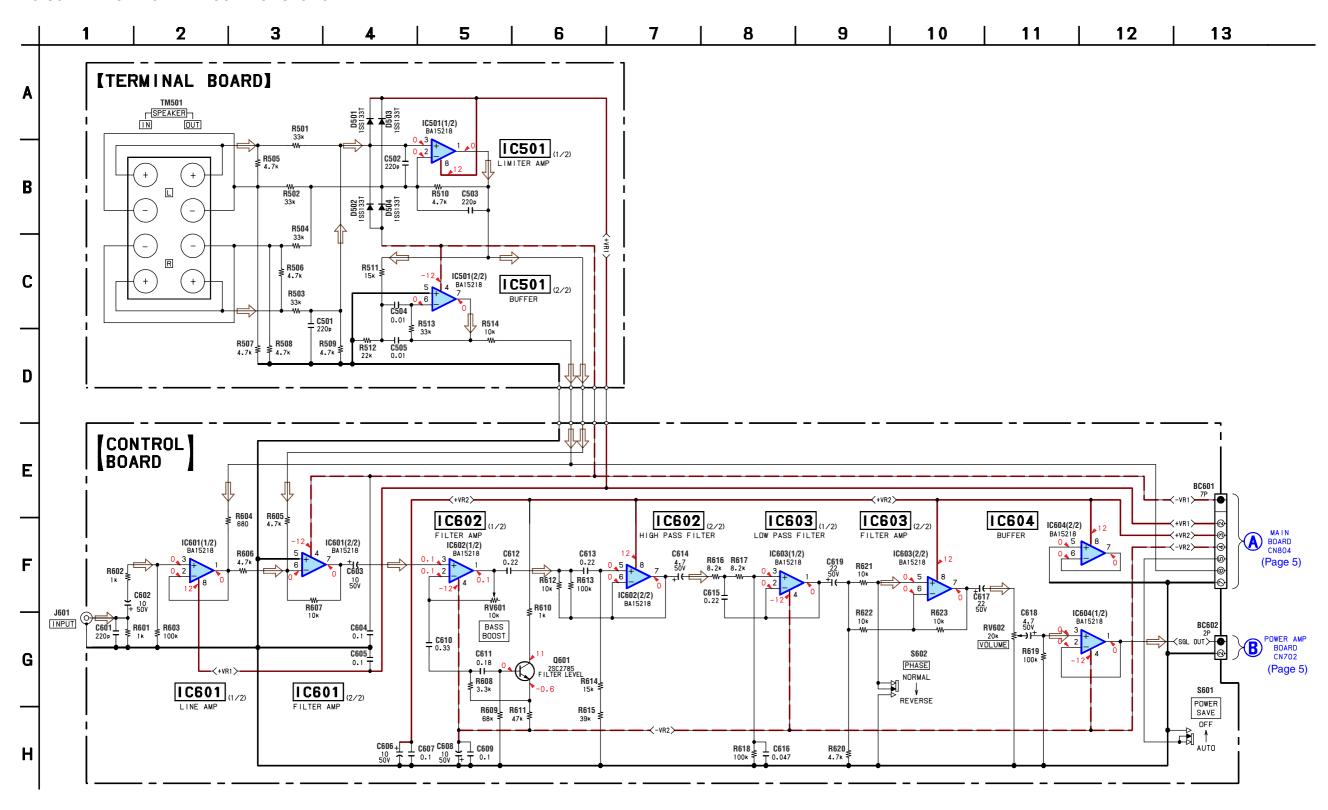
5



Semiconductor Location

Ref. No.	Location
D501	C-12
D502	C-12
D503	C-12
D504	C-12
IC501	C-11
IC601	C-8
IC602	C-2
IC603	C-4
IC604	B-6
Q601	B-1

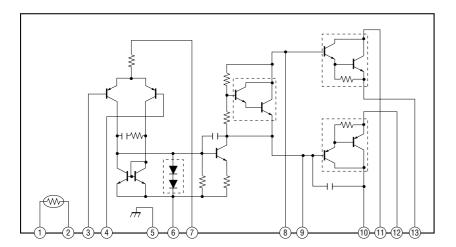
2-6. SCHEMATIC DIAGRAM — CONTROL SECTION —



7 7

2-7. IC BLOCK DIAGRAM

IC701 STK404-130S (POWER AMP Board)



SECTION 3 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

KNOB, BALANCE (WHITE) ... (RED)

↑

Parts Color Cabinet's Color

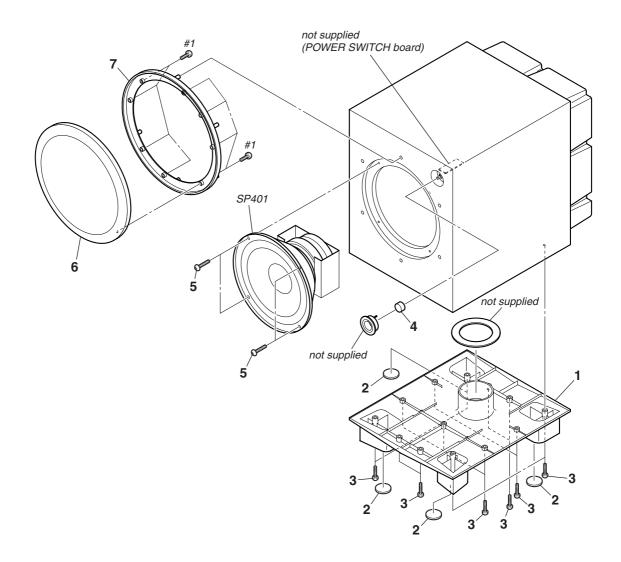
- Accessories are given in the last of this parts list.
- Abbreviation CND : Canadian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

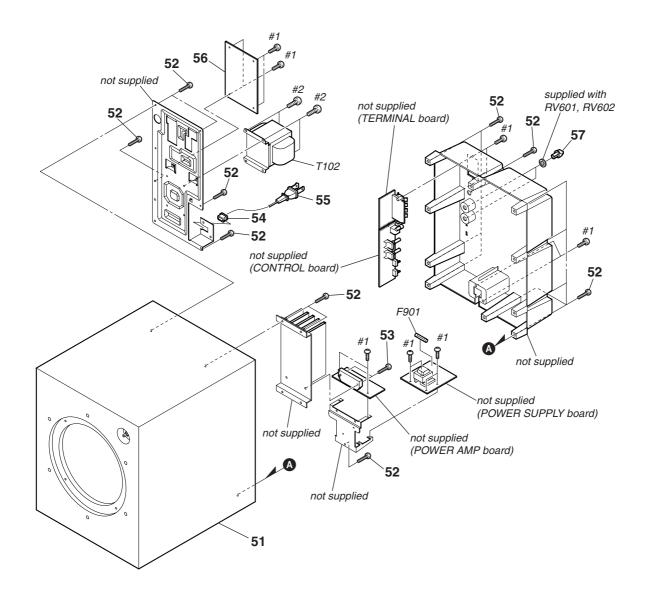
Ne les remplacer que par une piéce portant le numéro spécifié.

3-1. FRONT SECTION



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
1	4-254-094-01	BOTTOM (PANEL)		6	4-254-093-01	GRILLE (FRAME)	
2	4-981-864-01	FOOT		7	4-254-092-01	WOOFER (RING)	
3	4-235-677-01	SCREW (4X20) (TYPE1), +BVTP		SP401	1-825-151-21	SPEAKER (20cm) (WOOFER)	
4	4-253-282-01	PUSH (KNOB)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
5	4-874-614-02	SCREW (1) (3.5X14), TAPPING					

3-2. REAR SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51	A-4714-295-A	SPEAKER (CABINET) ASSY		57	4-999-482-81	KNOB (VOL)	
52	4-235-677-01	SCREW (4X20) (TYPE1), +BVTP		 ▲ F901	1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)	
53	3-905-609-31	SCREW (TRANSISTOR)		△ T102	1-443-275-11	TRANSFORMER, POWER	
* 54	3-703-244-00	BUSHING (2104), CORD		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
1 55 1 55	1-783-820-11	CORD, POWER		#2	7-685-880-09	SCREW +BVTT 4X6 (S)	
56	A-4751-446-A	MAIN BOARD, COMPLETE					

SECTION 4 ELECTRICAL PARTS LIST

CONTROL

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL:Metal-film resistor.
 METAL OXIDE: Metal oxide-film resistor.
 F:nonflammable

When indicating parts by reference number, please include the board.

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS
In each case, u : μ, for example:
uA.. : μA.. uPA.. : μPA..
uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..

• CAPACITORS uF: μF
• COILS uH: μH

• Abbreviation

CND : Canadian model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	<u>Description</u>			Remark	Ref. N	0.	Part No.	<u>Description</u>			Remark
		CONTROL BOAR	D			R60)4	1-249-415-11	CARBON	680	5%	1/4W
		******	**			R60)5	1-247-847-11	CARBON	4.7K	5%	1/4W
						R60	06	1-247-847-11	CARBON	4.7K	5%	1/4W
		< CONNECTOR >				R60	07	1-249-429-11		10K	5%	1/4W
						R60	08	1-247-843-11	CARBON	3.3K	5%	1/4W
BC601	1-691-769-11	PLUG (MICRO C	ONNECTOR) 7P								
BC602	1-564-505-11	PLUG, CONNECT				R60)9	1-249-439-11	CARBON	68K	5%	1/4W
		•				R61	10	1-247-831-11	CARBON	1K	5%	1/4W
		< CAPACITOR >				R61	11	1-247-871-11	CARBON	47K	5%	1/4W
						R61	12	1-249-429-11		10K	5%	1/4W
C601	1-102-978-00	CERAMIC	220PF	5%	50V	R61	13	1-247-879-11	CARBON	100K	5%	1/4W
C602	1-126-964-11	ELECT	10uF	20%	50V							
C603	1-126-964-11	ELECT	10uF	20%	50V	R61	14	1-249-431-11	CARBON	15K	5%	1/4W
C604	1-136-165-00	FILM	0.1uF	5%	50V	R61	15	1-249-436-11	CARBON	39K	5%	1/4W
C605	1-136-165-00		0.1uF	5%	50V	R61		1-249-428-11	CARBON	8.2K	5%	1/4W
0000			0	0 / 0		R61		1-249-428-11		8.2K	5%	1/4W
C606	1-126-964-11	FLECT	10uF	20%	50V	R61		1-247-879-11		100K	5%	1/4W
C607	1-164-159-11		0.1uF		50V						- / -	.,
C608	1-126-964-11		10uF	20%	50V	R61	19	1-247-879-11	CARBON	100K	5%	1/4W
C609	1-164-159-11		0.1uF	2070	50V	R62		1-247-847-11	CARBON	4.7K	5%	1/4W
C610	1-131-698-31		0.33uF	5%	50V	R62		1-249-429-11	CARBON	10K	5%	1/4W
0010	1 101 030 01	I ILIVI	0.0001	3 /0	30 V	R62		1-249-429-11	CARBON	10K	5%	1/4W
C611	1-131-695-11	FILM	0.18uF	5%	50V	R62		1-249-429-11	CARBON	10K	5%	1/4W
C612	1-131-696-11	FILM	0.10ul 0.22uF	5%	50V	1102	_0	1-243-423-11	OAITDON	TUIX	J /0	1/4 00
C613	1-131-696-11		0.22uF	5%	50V				< VARIABLE RES	ICTOD <		
C614			4.7uF		50V 50V				< VANIABLE NES	ioiun >		
C615	1-126-963-11		4.7ur 0.22uF	20% 5%	50V 50V	DV/	201	1 007 661 11	DEC VAD CADD	ON 101/ (D.	4 C C D O O	ΣΤ \
0010	1-131-696-11	FILIVI	U.ZZUF	370	30V	RV6	602	1-227-661-11 1-225-826-11	RES, VAR, CARB RES, VAR, CARB	,		51)
C616	1-131-688-31	FILM	0.047uF	5%	50V					`	,	
C617	1-126-965-11	ELECT	22uF	20%	50V				< SWITCH >			
C618	1-126-963-11	ELECT	4.7uF	20%	50V							
C619	1-126-965-11	ELECT	22uF	20%	50V	S60)1	1-786-490-11	SWITCH, SLIDE	POWER S	AVE)	
						S60)2		SWITCH, SLIDE		,	
		< IC >				****	****		********		******	*****
IC601	8-759-943-94	IC BA15218						Δ-4751-446-Δ	MAIN BOARD, CO	OMPLETE		
10601	8-759-943-94							7 1701 1107	*******			
IC603	8-759-943-94											
IC604	8-759-943-94								< CONNECTOR >			
												_
		< JACK >				BC4		1-564-320-00	,			
J601	1_915_025_11	JACK, PIN 1P (IN	IDI IT\			* BC8			PIN, CONNECTOR PLUG (MICRO CO			r
3001	1-013-023-11	JACK, FIN IF (III	1101)			BC8		1-691-765-11	,			
		< TRANSISTOR >	>						•		, -	
				_					< CAPACITOR >			
Q601	8-729-119-78	TRANSISTOR 2	SC2785-HF	E		046		4 400 000 44	EL EOT	400 F	000/	401/
		DECICEOD				C10		1-126-933-11	ELECT	100uF	20%	16V
		< RESISTOR >				C10		1-126-933-11	ELECT	100uF	20%	16V
D004	1 047 004 44	OADDON	41/	F0'	4 / 4\44	C30		1-136-165-00		0.1uF	5%	50V
R601			1K	5%	1/4W	C30		1-136-165-00		0.1uF	5%	50V
R602	1-247-831-11		1K	5%	1/4W	C30	J3	1-104-666-11	ELECT	220uF	20%	25V
R603	1-247-879-11	CAKRON	100K	5%	1/4W	I						

SA-WMS367

MAIN

POWER AMP

	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			Remark
0004	1-104-666-11	ELECT	000	000/	25V			< RESISTOR >			
C304			220uF	20%				< RESISTUR >			
C305	1-126-964-11	ELECT	10uF	20%	50V						
C306	1-126-964-11		10uF	20%	50V	R101	1-247-863-11		22K	5%	1/4W
C307	1-124-247-11	ELECT	10uF	20%	35V	R102	1-247-863-11	CARBON	22K	5%	1/4W
C308	1-124-247-11	ELECT	10uF	20%	35V	R103	1-249-427-11	CARBON	6.8K	5%	1/4W
						R104	1-249-427-11	CARBON	6.8K	5%	1/4W
C401	1-124-257-00	FLECT	2.2uF	20%	35V	R105	1-247-843-11	CARBON	3.3K	5%	1/4W
C402	1-126-950-11		330uF	20%	35V			07.11.12.01.1	0.0.0	• 70	.,
C403	1-126-923-11		220uF	20%	10V	R106	1-247-843-11	CADDON	3.3K	5%	1/4W
						1					
C531	1-104-662-11		22uF	20%	25V	R303	1-249-421-11		2.2K	5%	1/4W
C532	1-104-661-11	ELECT	330uF	20%	16V	R304	1-249-421-11		2.2K	5%	1/4W
						 ⚠ R400	1-215-869-11	METAL OXIDE	1K	5%	1W F
C801	1-165-946-11	ELECT	6800uF	20%	71V	R401	1-249-430-11	CARBON	12K	5%	1/4W
C802	1-165-946-11	ELECT	6800uF	20%	71V						
C803	1-130-777-00		0.1uF	5%	50V	R402	1-247-873-11	CARBON	56K	5%	1/4W
C804	1-130-777-00		0.1uF	5%	50V	R403	1-247-879-11		100K	5%	1/4W
C805	1-162-199-31		10PF	5%	50V	R404	1-247-879-11		100K	5%	1/4W
0000	1-102-199-31	CENAIVIIC	TUFF	J /0	307	1					
						R405	1-247-863-11		22K	5%	1/4W
C806	1-162-199-31	CERAMIC	10PF	5%	50V	R406	1-247-863-11	CARBON	22K	5%	1/4W
		< DIODE >				R531	1-247-895-00	CARBON	470K	5%	1/4W
						R532	1-247-883-00	CARBON	150K	5%	1/4W
D301	8-719-024-99	DIODE 11ES2-N	TAOR			R533	1-247-903-00		1M	5%	1/4W
						1		-			
D302	8-719-024-99	DIODE 11ES2-N				R534	1-247-879-11		100K	5%	1/4W
D303		DIODE 11ES2-N				R535	1-249-429-11	CARBON	10K	5%	1/4W
D304	8-719-024-99	DIODE 11ES2-N	TA2B								
D305	8-719-110-31	DIODE RD12ESI	B2			R536	1-249-429-11	CARBON	10K	5%	1/4W
						R537	1-247-879-11	CARBON	100K	5%	1/4W
D306	8_710_110_31	DIODE RD12ESI	22			R538	1-247-903-00		1M	5%	1/4W
						1					
D400		DIODE 1SS133T				R539	1-247-863-11		22K	5%	1/4W
D401		DIODE 1SS133T				R540	1-249-421-11	CARBON	2.2K	5%	1/4W
D531	8-719-991-33	DIODE 1SS133T	-77								
D532	8-719-991-33	DIODE 1SS133T	-77			R541	1-249-421-11	CARBON	2.2K	5%	1/4W
						R542	1-247-831-11	CARBON	1K	5%	1/4W
D533	8-719-991-33	DIODE 1SS133T	-77			R800	1-247-873-11		56K	5%	1/4W
D805		DIODE RBV-602				11000	1 247 070 11	OANDON	JUIN	J /0	1/ 400
D003	0-713-072-03	DIODE HDV-002	LI A					< RELAY >			
		ODOLIND TEDA						CILLAI >			
		< GROUND TERM	IINAL >								
						RY400	1-515-920-11	RELAY (24V)			
G1	1-537-738-21					1			*****	*****	*****
G1 G2			UND			1		RELAY (24V)	*****	*****	****
		TERMINAL, GRO	UND			1		RELAY (24V)		*****	*****
		TERMINAL, GROUTERMINAL, GROU	UND			1		RELAY (24V)	ARD	*****	******
		TERMINAL, GRO	UND			1		RELAY (24V) ************** POWER AMP BO	ARD	****	****
G2	1-537-738-21	TERMINAL, GROI TERMINAL, GROI < IC >	UND			1		RELAY (24V) ********** POWER AMP BO ************************************	ARD	*****	****
	1-537-738-21	TERMINAL, GROUTERMINAL, GROU	UND			1		RELAY (24V) ************* POWER AMP BO	ARD	****	*****
G2	1-537-738-21	TERMINAL, GROUTERMINAL, GROUTE	UND UND			******	*******	RELAY (24V) ********** POWER AMP BO. ********** < CAPACITOR >	ARD ****		
G2	1-537-738-21	TERMINAL, GROI TERMINAL, GROI < IC >	UND UND			**************************************	1-102-978-00	RELAY (24V) ********* POWER AMP BO. ********** < CAPACITOR > CERAMIC	ARD **** 220PF	5%	50V
G2 IC530	1-537-738-21 6-704-502-01	TERMINAL, GROUTERMINAL, GROUTE	UND UND			**************************************	1-102-978-00 1-102-978-00	RELAY (24V) *********** POWER AMP BO. ********** < CAPACITOR > CERAMIC CERAMIC CERAMIC	ARD **** 220PF 220PF		50V 50V
G2	1-537-738-21 6-704-502-01	TERMINAL, GROUTERMINAL, GROUTE	UND UND			**************************************	1-102-978-00	RELAY (24V) *********** POWER AMP BO. ********** < CAPACITOR > CERAMIC CERAMIC CERAMIC	ARD **** 220PF	5%	50V
G2 IC530 Q101	1-537-738-21 6-704-502-01 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTE	UND UND			C701 C702 C703	1-102-978-00 1-102-978-00 1-128-562-11	RELAY (24V) ********** POWER AMP BO. ********** < CAPACITOR > CERAMIC CERAMIC ELECT	ARD **** 220PF 220PF 47uF	5% 5% 20%	50V 50V 100V
G2 IC530 Q101 Q102	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA			C701 C702 C703 C704	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00	RELAY (24V) ******** POWER AMP BO. ********* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC	220PF 220PF 220PF 47uF 3PF	5% 5% 20% 0.25PF	50V 50V 100V 50V
G2 IC530 Q101 Q102 Q103	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA	=		C701 C702 C703	1-102-978-00 1-102-978-00 1-128-562-11	RELAY (24V) ******** POWER AMP BO. ********* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC	ARD **** 220PF 220PF 47uF	5% 5% 20%	50V 50V 100V
G2 IC530 Q101 Q102 Q103 Q104	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI			C701 C702 C703 C704 C705	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11	RELAY (24V) ******** POWER AMP BO. ********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT CERAMIC ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF	5% 5% 20% 0.25PF 20%	50V 50V 100V 50V 50V
G2 IC530 Q101 Q102 Q103	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI			C701 C702 C703 C704 C705	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11	RELAY (24V) *********** POWER AMP BO. *********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF	5% 5% 20% 0.25PF 20%	50V 50V 100V 50V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI	E		C701 C702 C703 C704 C705 C706 C707	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11	RELAY (24V) *********** POWER AMP BO. *********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT ELECT ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF	5% 5% 20% 0.25PF 20% 20%	50V 50V 100V 50V 50V 25V 100V
G2 IC530 Q101 Q102 Q103 Q104	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI	E		C701 C702 C703 C704 C705 C706 C707 C708	1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11 1-128-582-11	RELAY (24V) *********** POWER AMP BO. ************ < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF	5% 5% 20% 0.25PF 20%	50V 50V 100V 50V 50V 25V 100V 100V
G2 IC530 Q101 Q102 Q103 Q104 Q105	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI	E		C701 C702 C703 C704 C705 C706 C707	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11	RELAY (24V) *********** POWER AMP BO. ************ < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF	5% 5% 20% 0.25PF 20% 20%	50V 50V 100V 50V 50V 25V 100V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78 8-729-281-53 8-729-201-53	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC1815-GR	E		C701 C702 C703 C704 C705 C706 C707 C708 C709	1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11 1-128-582-11	RELAY (24V) ********** POWER AMP BO. *********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF	5% 5% 20% 0.25PF 20% 20% 20%	50V 50V 100V 50V 50V 25V 100V 100V 25V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-119-78 8-729-281-53 8-729-201-53 8-729-119-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC1815-GR SA1015-GR SC2785-HFI	E		C701 C702 C703 C704 C705 C706 C707 C708	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11 1-128-582-11 1-104-665-11	RELAY (24V) ********** POWER AMP BO. *********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF	5% 5% 20% 0.25PF 20% 20% 20% 20%	50V 50V 100V 50V 50V 25V 100V 100V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402	8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78 8-729-281-53 8-729-201-53 8-729-119-78 8-729-178-42	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC1815-GR SA1015-GR SC2785-HFI SC2784-F	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710	1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-104-666-11 1-128-563-11 1-128-582-11 1-104-665-11 1-102-824-00	RELAY (24V) ********** POWER AMP BO. *********** < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT ELECT CERAMIC	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF	5% 5% 20% 0.25PF 20% 20% 20% 20% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401	8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78 8-729-281-53 8-729-201-53 8-729-119-78 8-729-178-42	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC1815-GR SA1015-GR SC2785-HFI SC2784-F	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-104-665-11 1-102-824-00 1-128-582-11	RELAY (24V) *********** POWER AMP BO. ************ < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 10uF 10uF	5% 5% 20% 0.25PF 20% 20% 20% 20% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-119-78 8-729-201-53 8-729-119-78 8-729-178-42 8-729-119-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI SC2785-HFI	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00	RELAY (24V) ************* POWER AMP BO. ************ < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 10uF 470PF	5% 5% 20% 0.25PF 20% 20% 20% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-119-78 8-729-201-53 8-729-119-78 8-729-178-42 8-729-119-78 8-729-19-78	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00	RELAY (24V) ************* POWER AMP BO. ************* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT E	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 10uF 470PF 10uF 0.1uF 220PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-201-53 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00	RELAY (24V) ************* POWER AMP BO. ************* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT E	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 10uF 470PF	5% 5% 20% 0.25PF 20% 20% 20% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-201-53 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00	RELAY (24V) ************* POWER AMP BO. ************* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT E	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 10uF 470PF 10uF 0.1uF 220PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531 Q532	8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-76 8-729-119-78 8-729-201-53 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-178-42 8-729-178-42 8-729-178-42	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00	RELAY (24V) ********* POWER AMP BO ********* CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT CERAMIC ECRAMIC ECRAMIC CERAMIC CERAMIC	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF 10uF 0.1uF 220PF 10PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531 Q532 Q533	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-119-76 8-729-119-78 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINISTOR DEFENDED TO TRANSISTOR DEFE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00	RELAY (24V) ************* POWER AMP BO. ************* < CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT E	220PF 220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF 10uF 0.1uF 220PF 10PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531 Q532	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-119-76 8-729-119-78 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713 C716	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-104-665-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00 1-162-199-31	RELAY (24V) ********** POWER AMP BO ********** CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT CERAMIC ELECT CERAMIC CERAMIC CERAMIC CERAMIC CONNECTOR >	220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF 10uF 0.1uF 220PF 10PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531 Q532 Q533 Q534	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-281-53 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-19-78 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINISTOR DEPOSITION	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713 C716	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-104-665-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00 1-162-199-31	RELAY (24V) ********* POWER AMP BO ********* CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT CERAMIC ECRAMIC ECRAMIC CERAMIC CERAMIC	220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF 10uF 0.1uF 220PF 10PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V
G2 IC530 Q101 Q102 Q103 Q104 Q105 Q301 Q302 Q401 Q402 Q403 Q404 Q531 Q532 Q533	1-537-738-21 6-704-502-01 8-729-029-86 8-729-029-86 8-729-029-40 8-729-119-78 8-729-281-53 8-729-201-53 8-729-119-78 8-729-178-42 8-729-178-42 8-729-178-42 8-729-19-78 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86 8-729-029-86	TERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINAL, GROUTERMINISTOR DEFENDED TO TRANSISTOR DEFE	UND UND TC124ESA TC124ESA TA124ESA SA1175-HFI SC2785-HFI SC2785-HFI SC2785-HFI TC124ESA TC124ESA TC124ESA TC124ESA TC124ESA	E E		C701 C702 C703 C704 C705 C706 C707 C708 C709 C710 C711 C712 C713 C716	1-102-978-00 1-102-978-00 1-102-978-00 1-128-562-11 1-102-936-00 1-126-961-11 1-128-563-11 1-128-582-11 1-104-665-11 1-102-824-00 1-128-582-11 1-136-165-00 1-102-978-00 1-162-199-31	RELAY (24V) ********** POWER AMP BO ********** CAPACITOR > CERAMIC CERAMIC ELECT CERAMIC ELECT CERAMIC ELECT CERAMIC CERAMIC CERAMIC CERAMIC CONNECTOR >	220PF 220PF 47uF 3PF 2.2uF 220uF 100uF 10uF 10uF 470PF 10uF 0.1uF 220PF 10PF	5% 5% 20% 0.25PF 20% 20% 20% 5% 5% 5% 5%	50V 50V 100V 50V 50V 25V 100V 100V 25V 50V

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

TERMINAL

POWER SWITCH

Ref. No.	Part No.	<u>Description</u> < DIODE >			<u>Remark</u>	Ref. No.	Part No.	Description POWER SWITCH			<u>Remark</u>
								******	*****		
D701 D702 D703	8-719-991-33	DIODE 1SS133T- DIODE 1SS133T- DIODE 1SS133T-	77					< CONNECTOR >			
		< IC >				BC202 BC203	1-564-321-00 1-691-765-11				Р
IC701	6-600-182-01	IC STK404-140S						< CAPACITOR >			
		< TRANSISTOR >				△ C201	1-113-925-11	CERAMIC	0.01uF	20%	250V
Q701 Q702		TRANSISTOR 2S						< DIODE >			
		< RESISTOR >				D203	8-719-064-11	LED SPR-325M	VW (POWE	R)	
D704	1 004 100 11	ENIOA DOLIII ATED O	ONADONIEN	IT 0 00V				< SWITCH >			
R701	1-234-182-11 1-260-110-11	ENCAPSULATED (A C001	1 554 000 11	CWITCH DUCK	4.C. DOWED	\	(DOWED)
R702 R703	1-260-110-11	CARBON CARBON	8.2K 8.2K	5% 5%	1/2W 1/2W	△ S201	1-554-920-11	SWITCH, PUSH (A		, , ,	` ,
R703	1-247-873-11		6.2K 56K	5% 5%	1/2VV 1/4W					4-4-4-4-4-4-4-4	
R705	1-249-416-11		820	5%	1/4W			TERMINAL BOAR	D		
117 00	1 2 10 110 11	OTTIBON	020	0 70	1, 100			******			
 ≜ R706	1-215-886-11	METAL OXIDE	100	5%	2W F						
R707	1-247-831-11	CARBON	1K	5%	1/4W			< CAPACITOR >			
R708	1-247-873-11	CARBON	56K	5%	1/4W						
R709	1-247-863-11		22K	5%	1/4W	C501	1-102-978-00	CERAMIC	220PF	5%	50V
R710	1-247-831-11	CARBON	1K	5%	1/4W	C502	1-102-978-00	CERAMIC	220PF	5%	50V
						C503	1-102-978-00	CERAMIC	220PF	5%	50V
R711	1-247-847-11		4.7K	5%	1/4W	C504	1-131-679-31		0.01uF	5%	50V
⚠ R712	1-202-972-61		1	5%	1/4W F	C505	1-131-679-31	FILM	0.01uF	5%	50V
⚠ R713	1-216-357-00	METAL OXIDE	4.7	5%	1W F			DIODE			
R714 R715	1-249-399-11 1-247-847-11	CARBON	33 4.7K	5% 5%	1/4W 1/4W			< DIODE >			
n/10	1-247-047-11	CANDUN	4./ N	370	1/4 VV	D501	8-719-991-33	DIODE 1SS133T	-77		
R716	1-247-850-11	CARRON	6.2K	5%	1/4W	D501	8-719-991-33	DIODE 1881331			
R717	1-249-429-11		10K	5%	1/4W	D503	8-719-991-33				
		******				D504	8-719-991-33				
		POWER SUPPLY E	-					< IC >			
	1-533-217-31	HOLDER, FUSE				IC501	8-759-943-94				
		< CONNECTOR >						< RESISTOR >			
						R501	1-249-435-11		33K	5%	1/4W
BC901		PIN, CONNECTOR			P	R502	1-249-435-11		33K	5%	1/4W
* BC902		PIN, CONNECTOR			_	R503	1-249-435-11		33K	5%	1/4W
* BC903	1-565-792-11	PIN, CONNECTOR	(3.96mm)	PITCH) 2	Ρ	R504	1-249-435-11		33K	5%	1/4W
		< CAPACITOR >				R505	1-260-107-11	CARBUN	4.7K	5%	1/2W
		< GAFAGITUR >				R506	1-260-107-11	CARBON	4.7K	5%	1/2W
△ C901	1-113-925-11	CERAMIC	0.01uF	20%	250V	R507	1-247-847-11		4.7K	5%	1/4W
△ C902	1-113-925-11		0.01uF	20%	250V	R508	1-247-847-11		4.7K	5%	1/4W
		02.0.00	0.0.0.	2070		R509	1-247-847-11		4.7K	5%	1/4W
		< DIODE >				R510	1-247-847-11		4.7K	5%	1/4W
D901	8-719-991-33	DIODE 1SS133T-	·77			R511	1-249-431-11		15K	5%	1/4W
						R512	1-247-863-11		22K	5%	1/4W
		< RELAY >				R513	1-249-435-11		33K	5%	1/4W
* D)(004	4 755 450 44	DEL AV				R514	1-249-429-11	CARBON	10K	5%	1/4W
⚠ RY901	1-755-458-11	KELAY						TEDMINAL DOM	NDD s		
		< TRANSFORMER	>					< TERMINAL BOA			
						TM501	1-537-376-11	TERMINAL BOAR	D (SPEAKE	:R)	

POWER SUPPLY

POWER AMP

△ T202 1-443-348-11 TRANSFORMER, POWER

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.

Ne les remplacer que par une pièce

Replace only with part number specified.

Ne les remplacer que par une piéce portant le numéro spécifié.

SA-WMS367

Ref. No.	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		MISCELLANEOUS	

1 55 1 55	1-/83-820-11	CORD, POWER	
 № F901	1-532-745-11	FUSE, GLASS TUBE (3.15A/125V)	
SP401	1-825-151-21	SPEAKER (20cm) (WOOFER)	
1 ★ T102	1-443-275-11	TRANSFORMER POWER	

Replace only with part number specified.

<u>MEMO</u>

REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.03	New